

Title (en)
TIME RATE OF CHANGE MOTOR START CIRCUIT

Title (de)
MOTOR-STARTSCHALTUNG UNTER VERWENDUNG DER ZEITLICHEN AENDERUNGSRATE EINER BEZUGSGROESSE

Title (fr)
CIRCUIT DE DEMARRAGE DE MOTEUR, A VITESSE DE VARIATION TEMPORELLE

Publication
EP 1240709 A1 20020918 (EN)

Application
EP 00941365 A 20000613

Priority
• US 0016104 W 20000613
• US 33240599 A 19990614

Abstract (en)
[origin: US6320348B1] A start circuit for a single-phase AC motor controls the current through the start or auxiliary winding based on time rate of change of voltage or current, or based on the current or voltage dropping or rising some fraction from inrush value, i.e., to 50% of initial start current or to 150% of initial start voltage. The circuit can also include a default timer to time out the start current after some preset period between 300 and 1000 milliseconds.

IPC 1-7
H02P 1/42

IPC 8 full level
H02P 1/42 (2006.01)

CPC (source: EP US)
H02P 1/42 (2013.01 - EP US)

Cited by
EP2874306A1; US7777992B2; US7777438B2; US7630180B2; US9265585B2; US10162312B2; US10838372B2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 0077920 A1 20001221; AT E311687 T1 20051215; BR 0011568 A 20020305; BR PI0011568 B1 20180515; DE 60024487 D1 20060105; DE 60024487 T2 20060720; EP 1240709 A1 20020918; EP 1240709 B1 20051130; EP 1240709 B8 20060517; ES 2252016 T3 20060516; JP 2003502997 A 20030121; JP 4754747 B2 20110824; US 6320348 B1 20011120

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